

WHAT IS CLAIMED IS:

1 1. A pipeline pig that is moved through the interior of a pipeline by the flow of
2 pressurized gas and that provides for improved distribution of treating liquid
3 subsisting in the lower portion of the pipeline, comprising:

4 a longitudinal pig body having forward and rearward ends;

5 forward and rearward centralizers affixed to said pig body by which it is
6 supported in the pipeline and moved by gas flow through the pipeline;

7 a bypass passageway within said pig body communicating with the pipeline
8 interior;

9 a siphon passageway communicating with a lower portion of the pipeline
10 interior; and

11 a venturi supported by said pig body in communication with said siphon
12 passageway and said bypass passageway, gas flowing through said bypass
13 passageway serving to draw liquid subsisting in lower portions of the pipeline
14 through said siphon passageway whereby the liquid is moved for distribution onto
15 interior upper surfaces of the pipeline.

1 2. A method of distributing liquid present in the lower portion of a gas pipeline to the
2 interior upper surface of the pipeline, comprising:

3 passing a pig having a venturi therein, the venturi being actuated by gas
4 pressure taken from within the pig;

5 siphoning liquid from a lower interior portion of the pipeline through said
6 venturi; and

7 distributing siphoned liquid onto the pipeline upper interior surface.

1 3. A method according to claim 2 including the step of:

2 storing liquid drawn from a lower portion of the pipeline in a reservoir carried
3 by the said pipeline pig, liquid from the reservoir being distributed onto portions of
4 the pipeline interior surface.

1 4. A method according to claim 2 wherein said gas pressure is taken from a rearward
2 portion of the pig is taken from a lower interior portion of the pipeline whereby
3 liquid in the pipeline is, at least part of the time, taken into the pig body and stored in
4 a body reservoir, liquid from the reservoir being distributed to the pipeline upper
5 surface.

1 5. A method according to claim ⁷~~2~~ wherein said pig is asymmetrically weighted to
2 provide a pig upper portion and a pig lower portion and wherein the siphoned liquid
3 is distributed through an upwardly inclined passageway.

1 6. A method according to claim ⁷~~2~~ wherein said pig has a passageway therein connected
2 between a rearward portion of said pig and said venturi, and wherein said
3 passageway has an inlet that communicates with a lower interior portion of the
4 pipeline.